

Fig. 1

C/2 to DV (-3mV) C/2 to 0.9 V

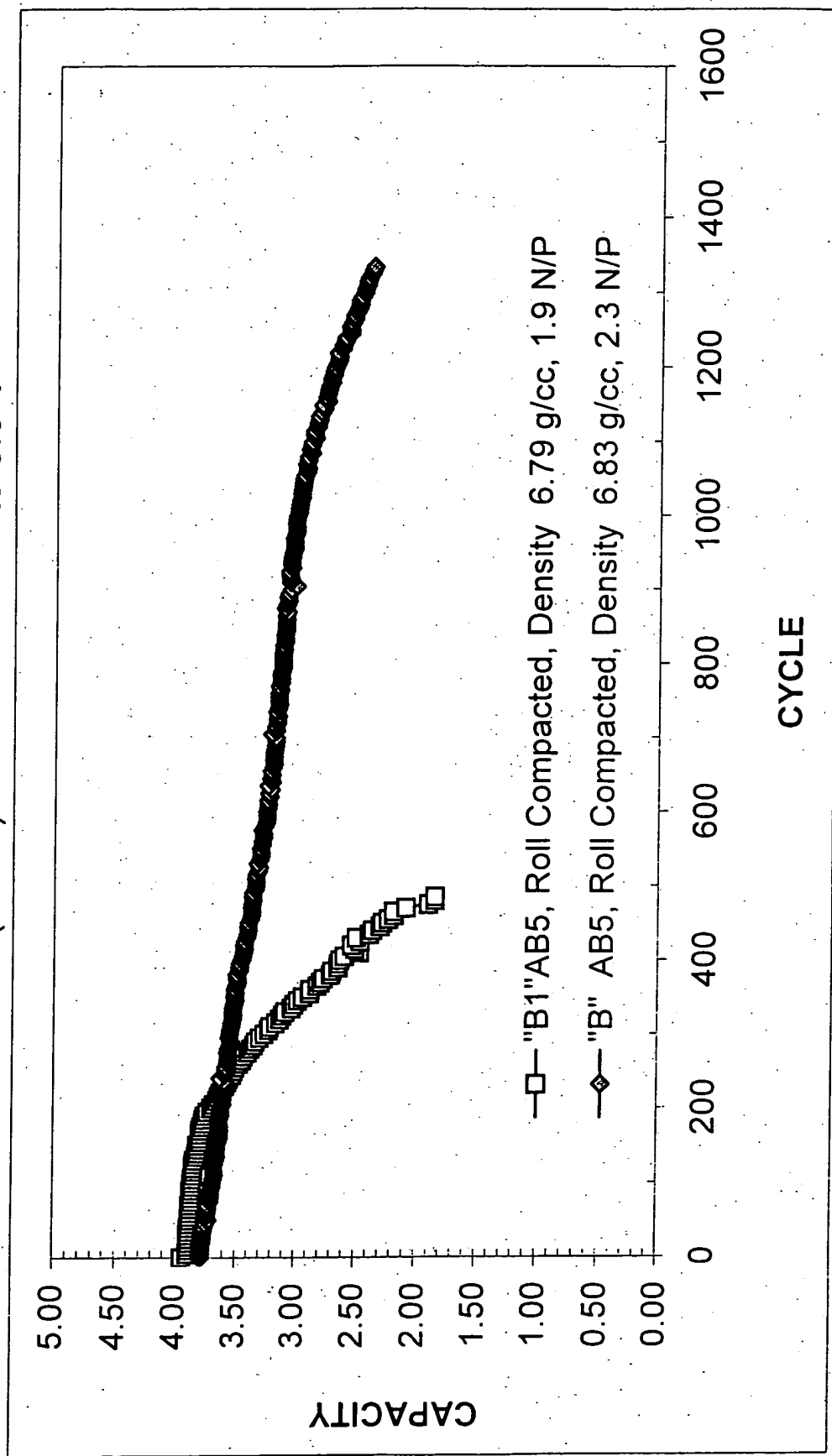


Fig. 2A

Ovonic Ni-MH C Cell

“B” AB5 Pasted Negative Electrode

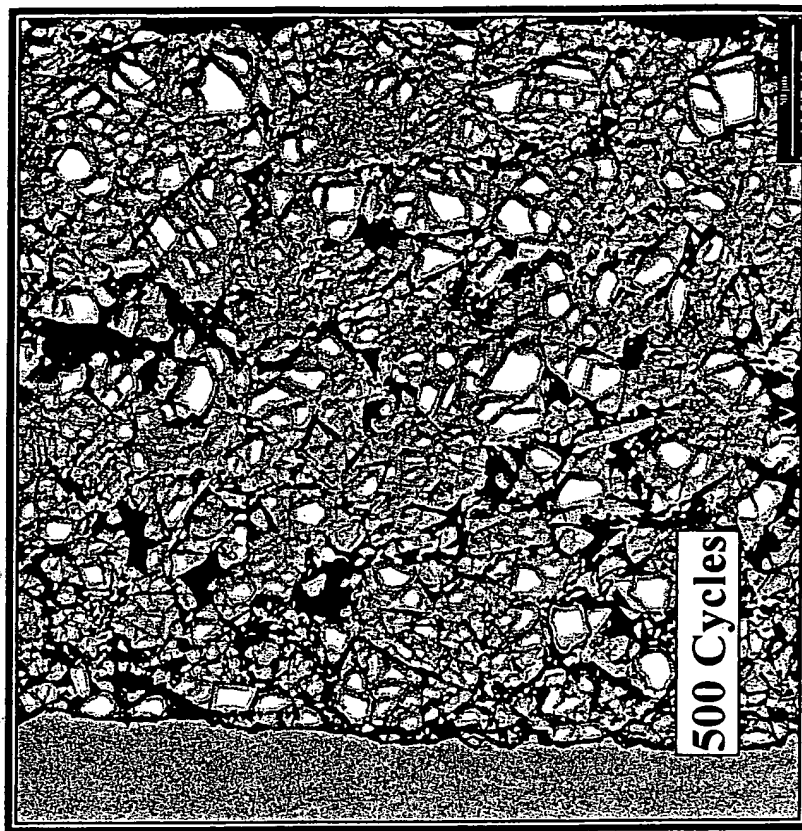
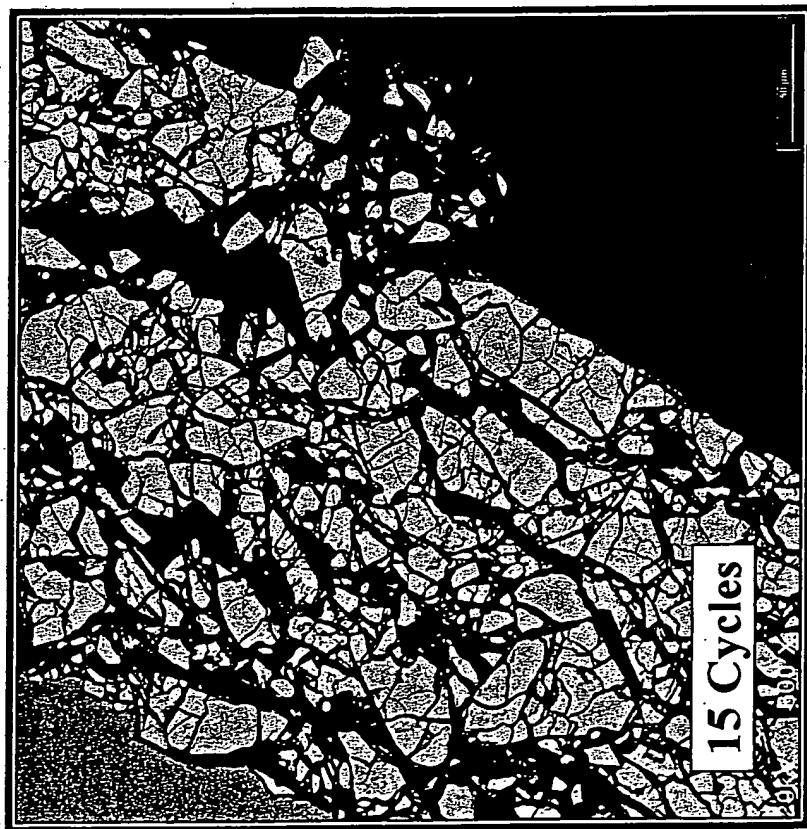


Fig. 2B

Ovonic Ni-MH C Cell

"B1" AB5 Pasted Negative Electrode

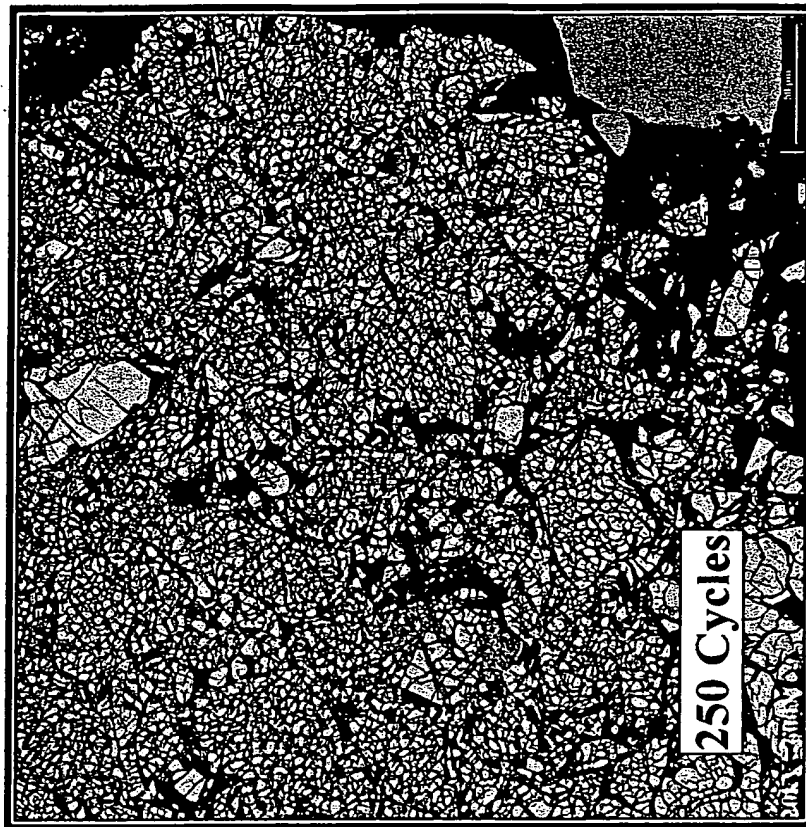
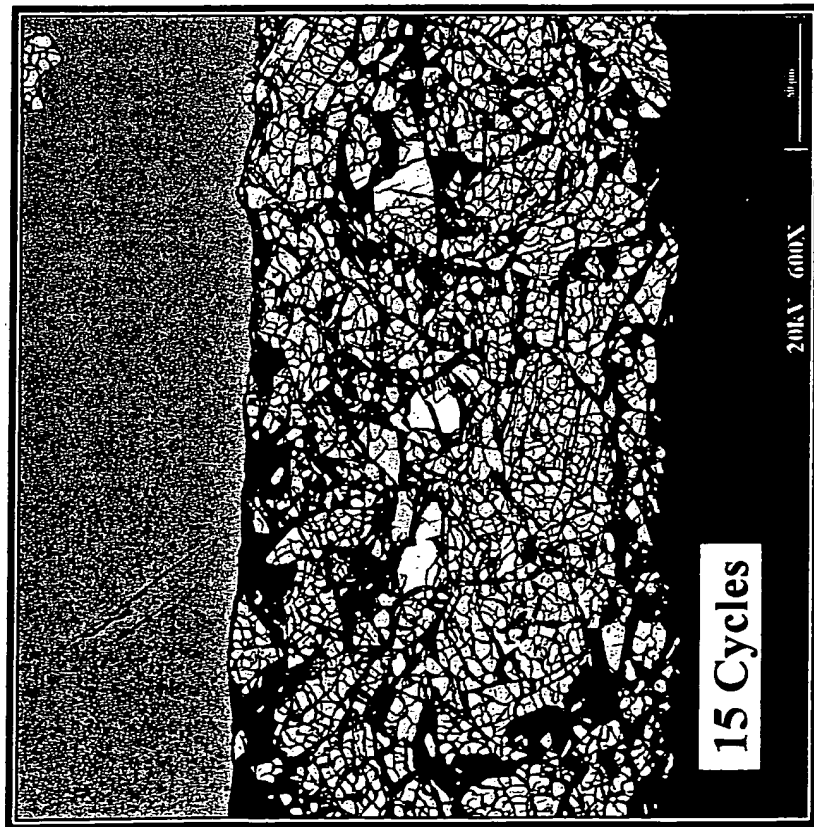


Fig. 3

PCT Measurement Result
AB5 Material at 30°C

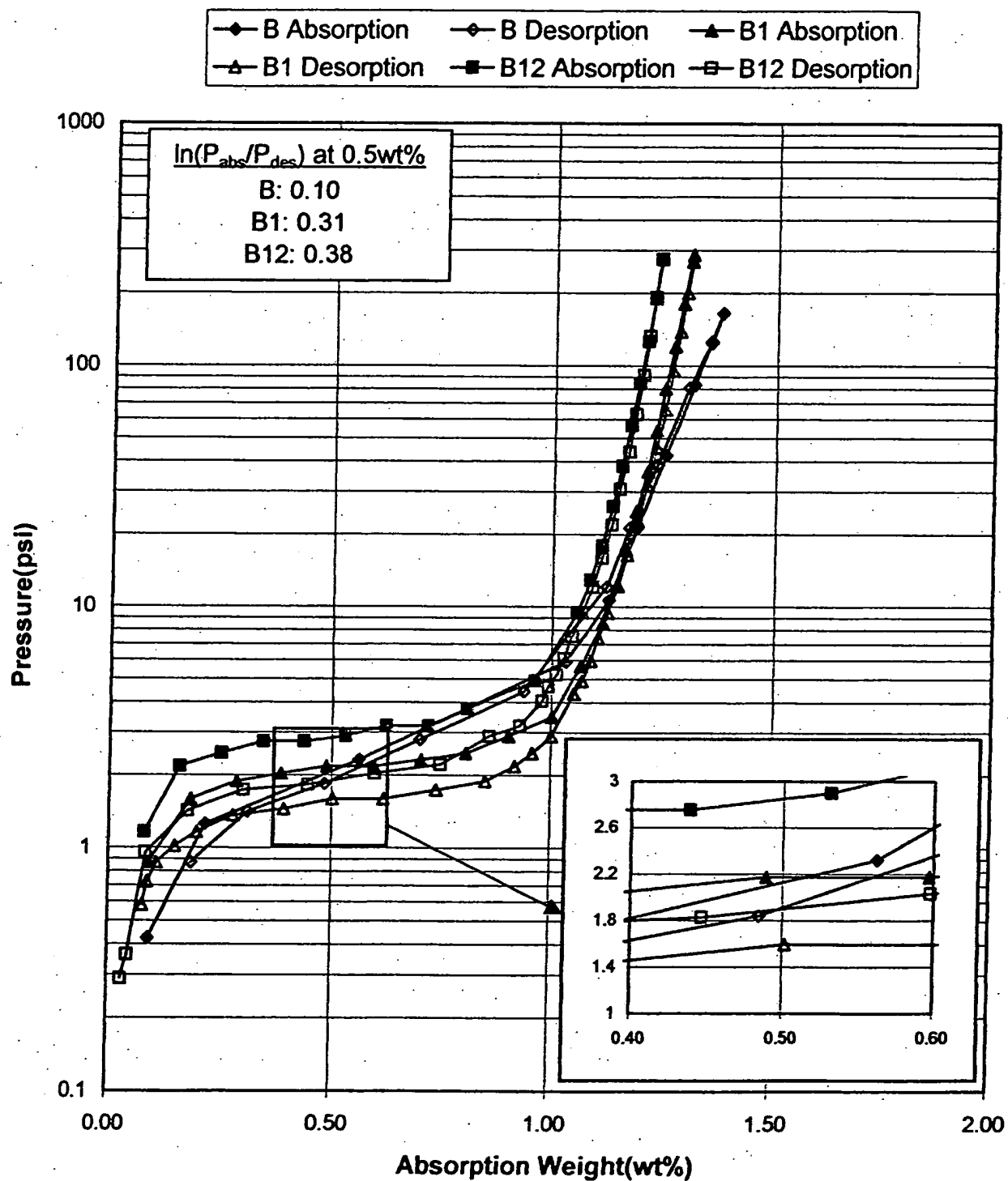
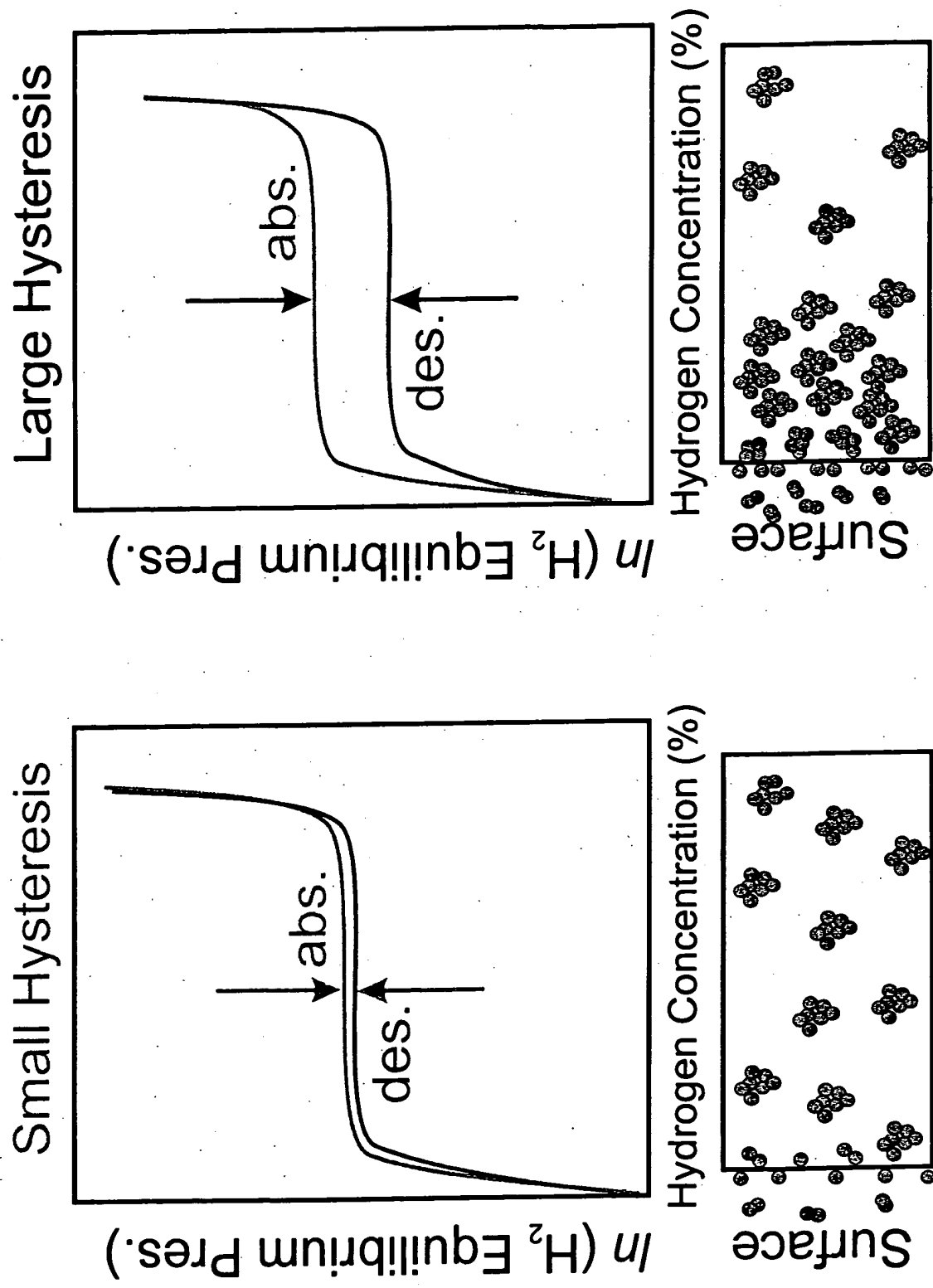


Fig. 4



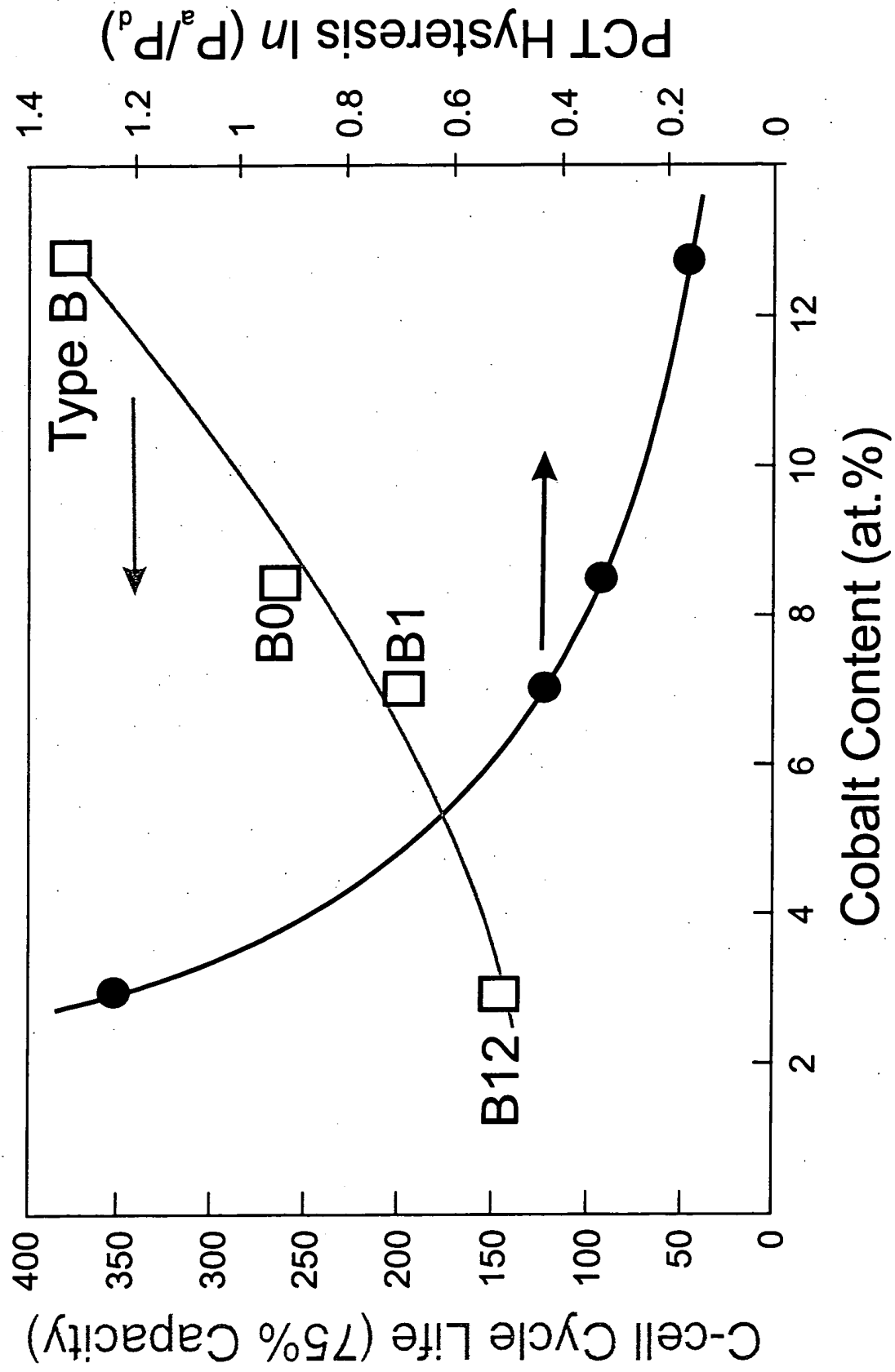
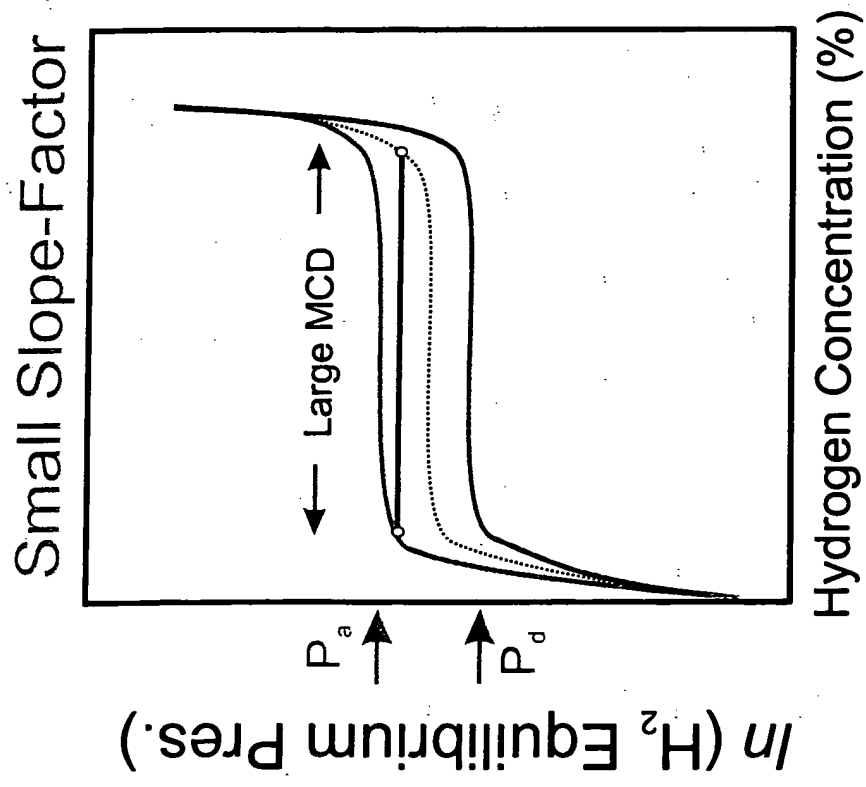
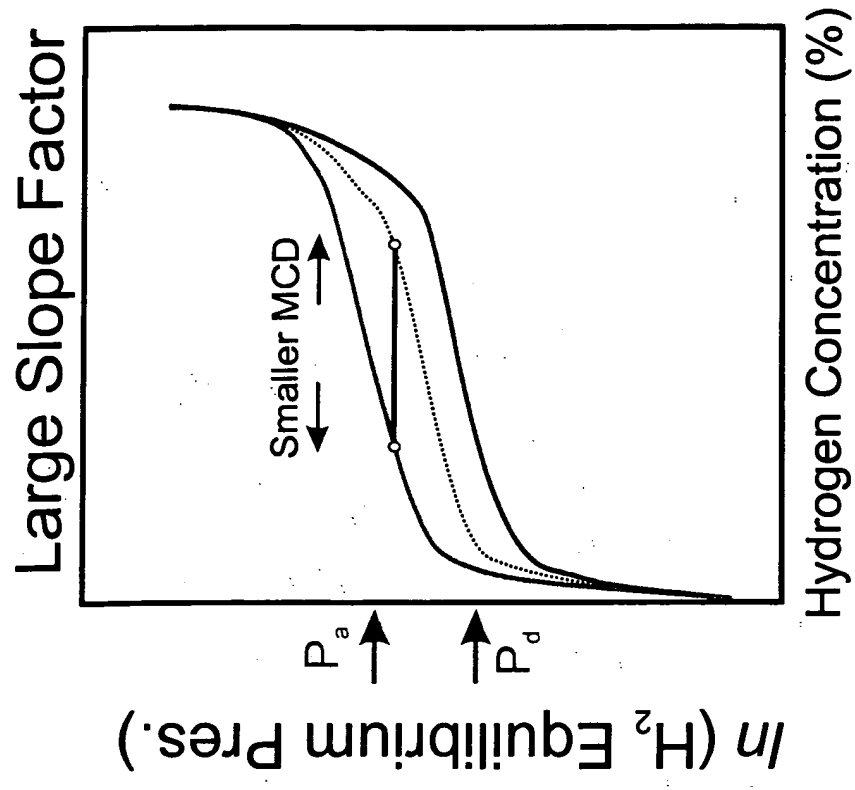


Fig. 5



(a)



(b)

Fig. 6

Fig. 7

PCT Measurement Result at 30°C AB5 Material with Low Zr

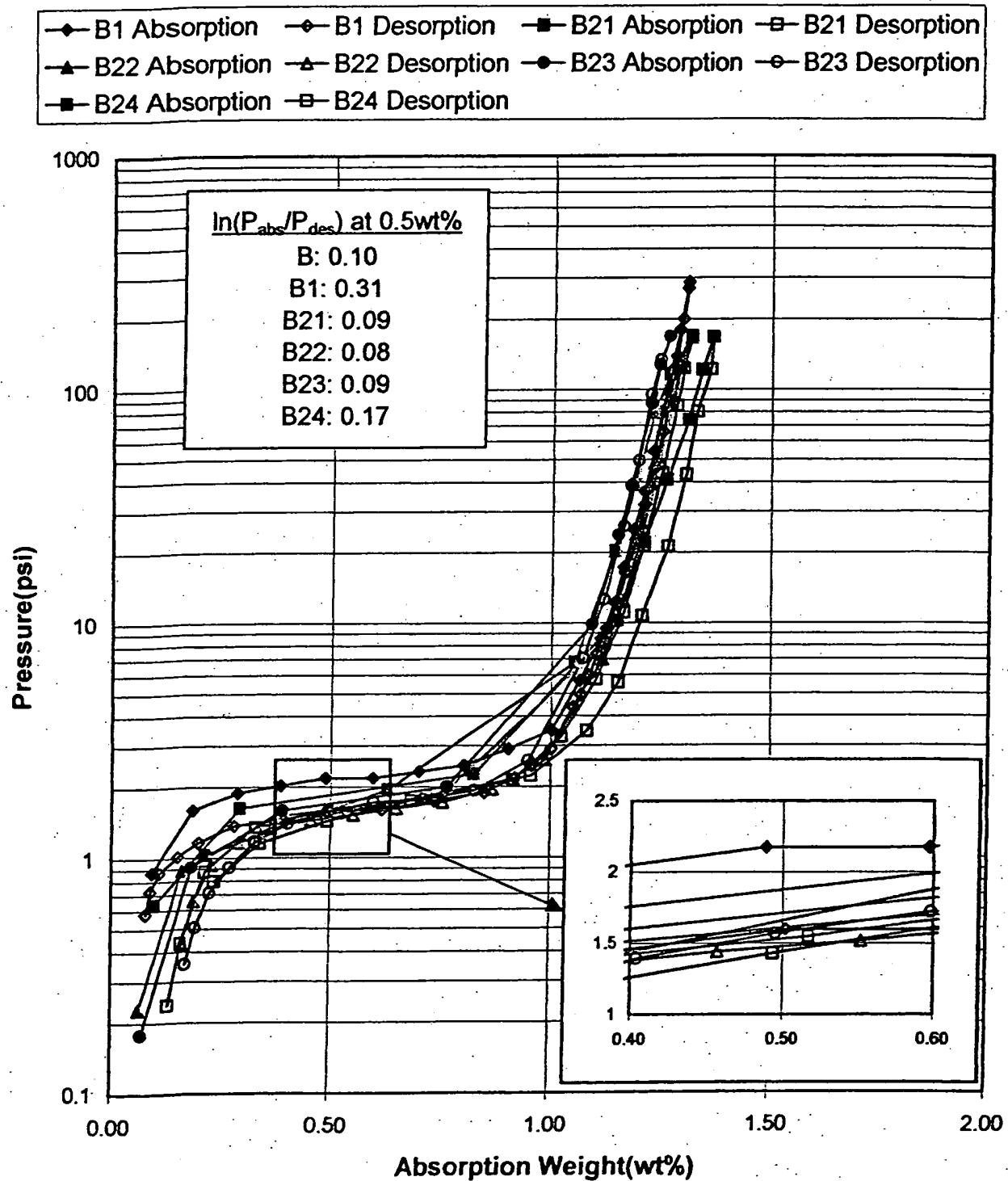


Fig. 8

PCT Measurement Result at 30°C AB5 Material with High Zr

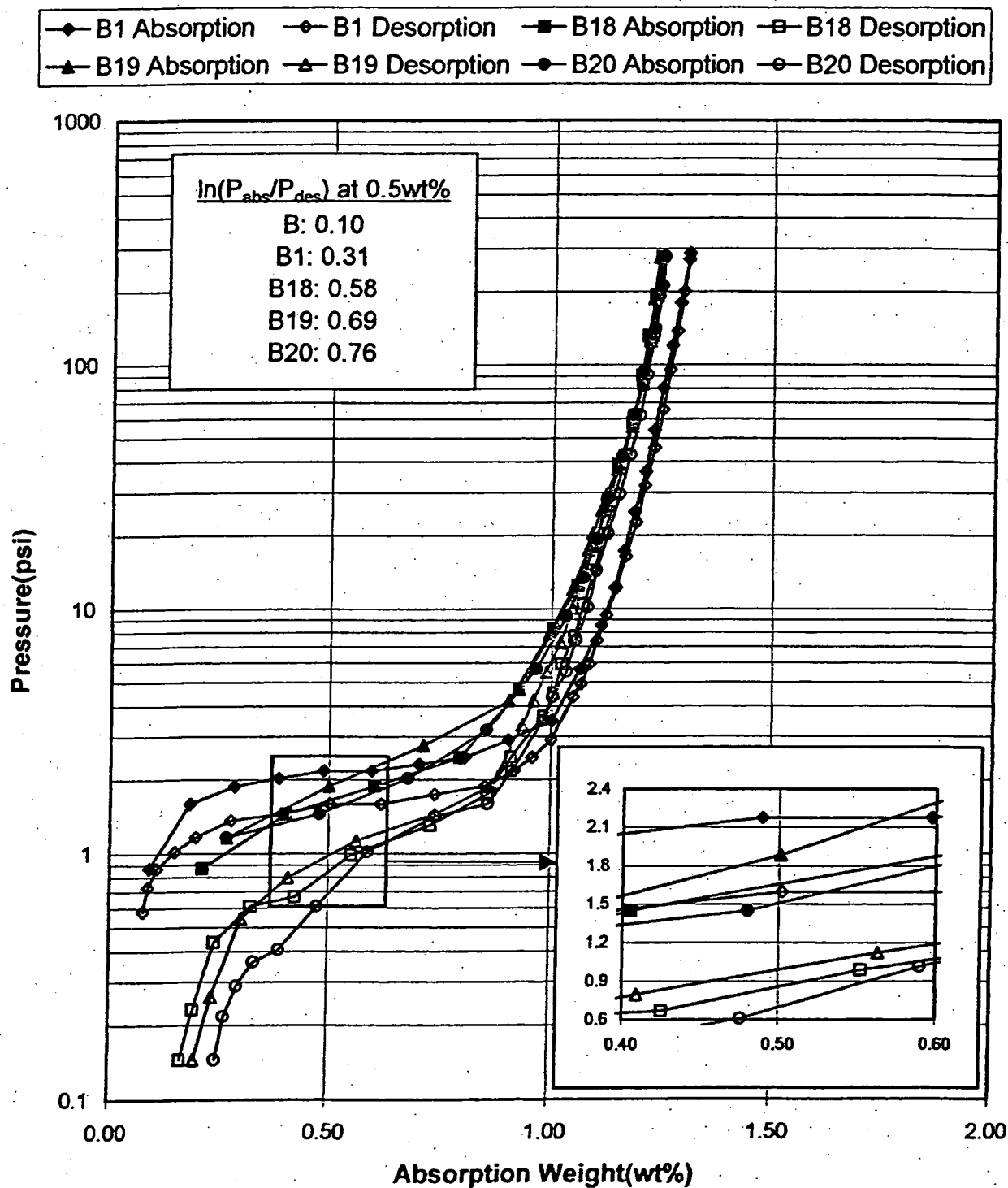


Fig. 9

PCT Measurement Result at 30°C AB5 Material with 0.5% Si

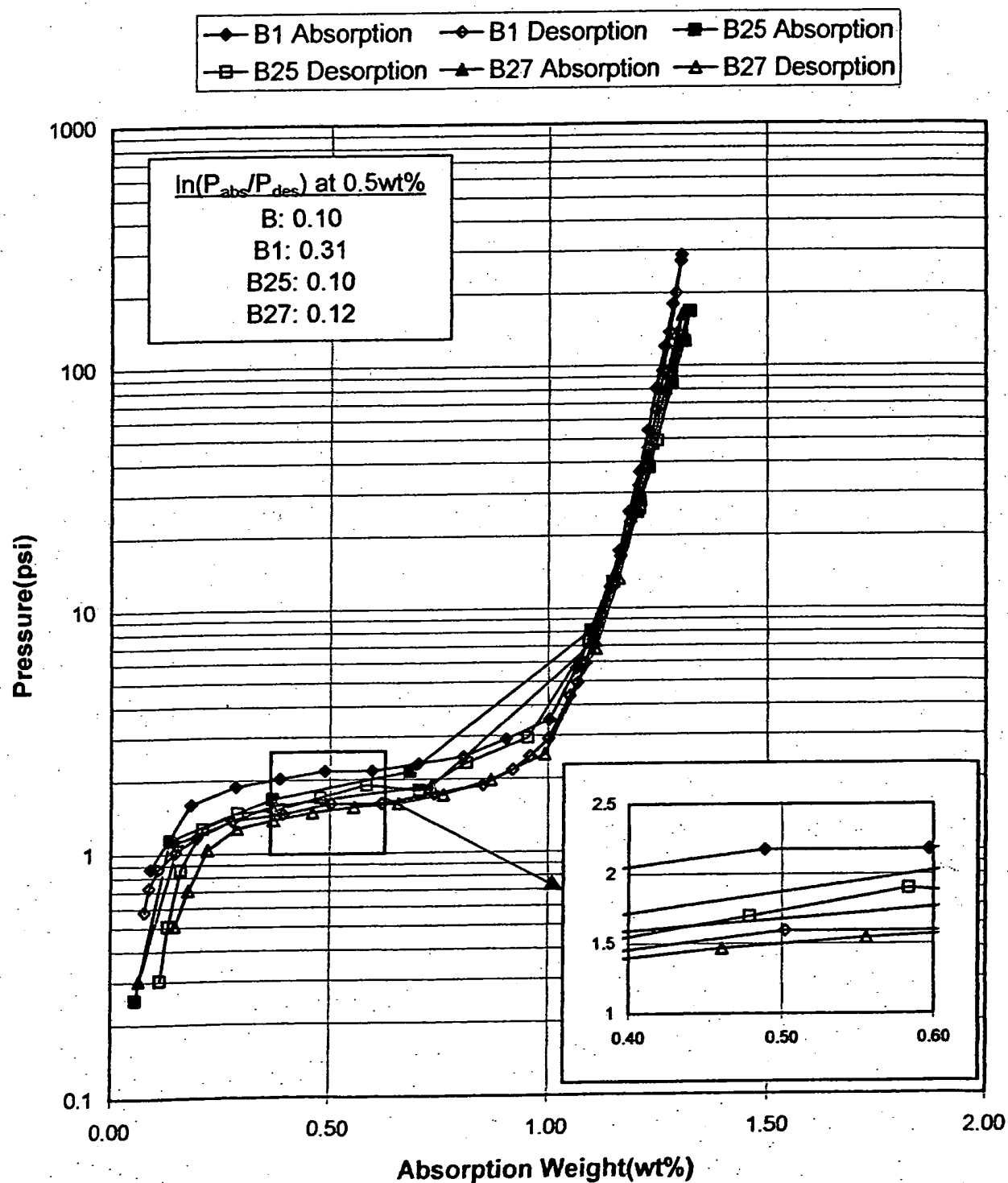


Fig. 10

PCT Measurement Result at 30°C
AB5 Material with 1.0% Si

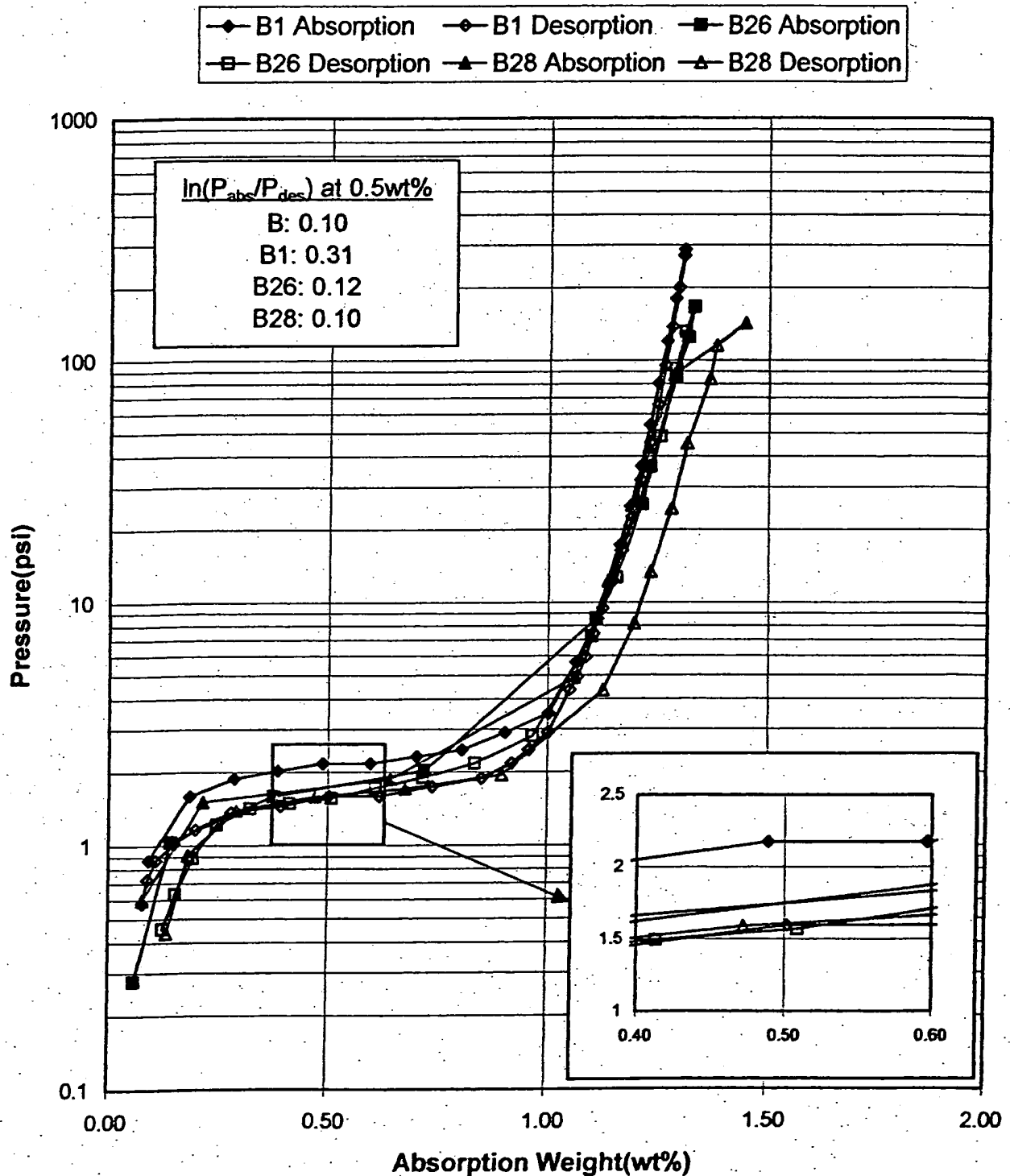


Fig. 11

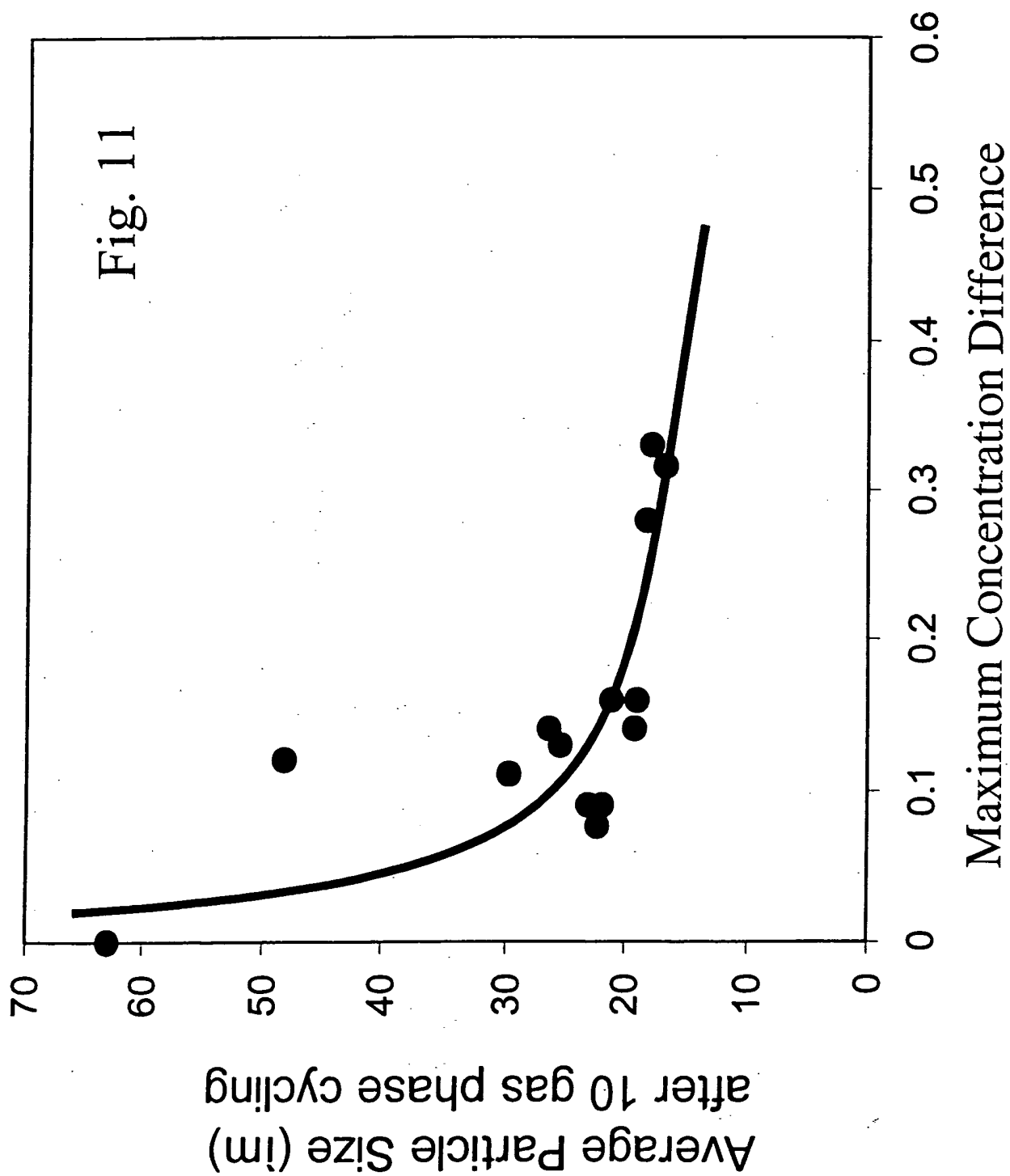
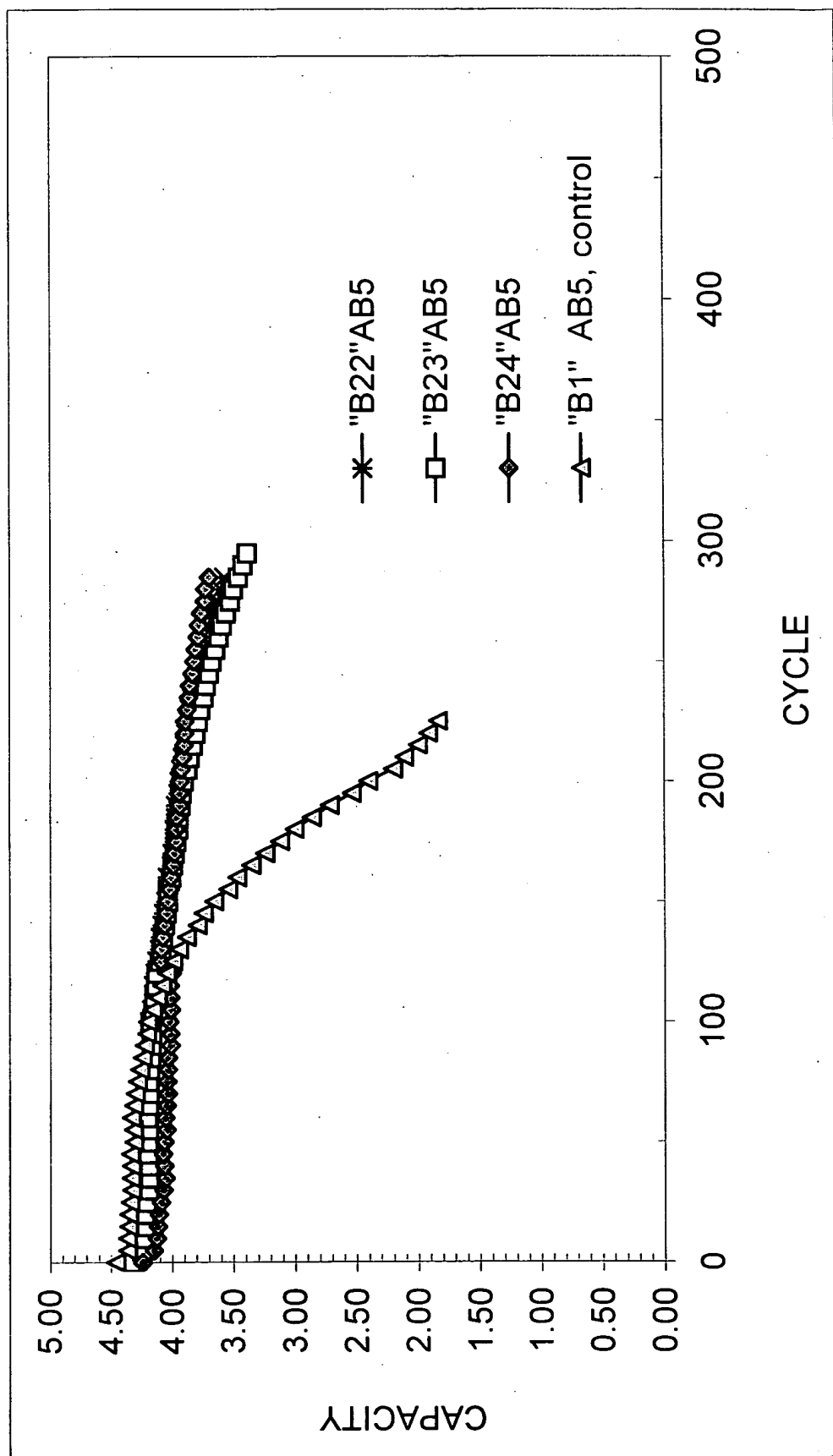


Fig. 12

C/2 to ΔV (-3mV) C/2 to 0.9 V



HEV Power Test (C, 10C Pulse method)

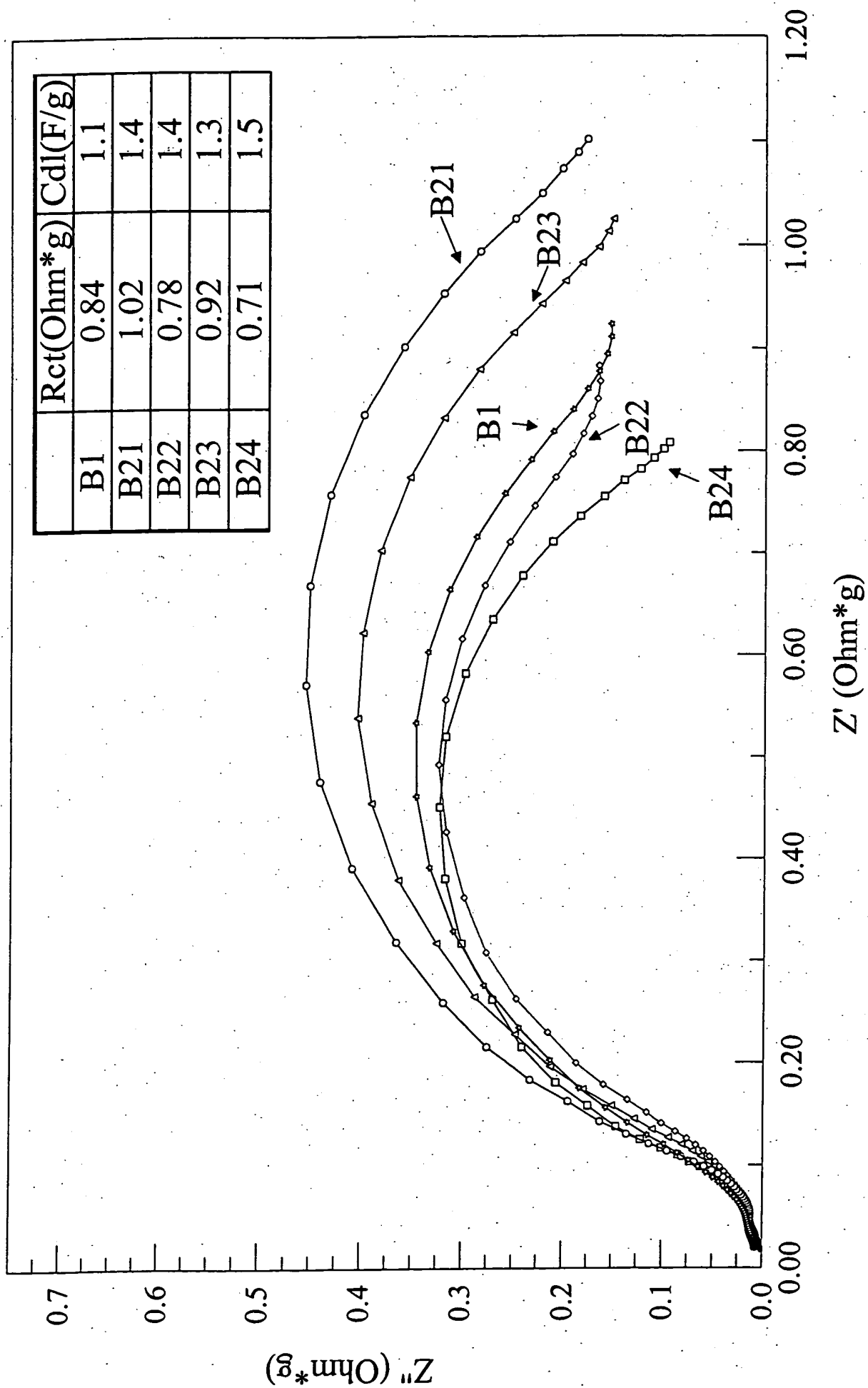


The graph shows the specific power of four battery types as a function of their state of charge. The y-axis represents specific power in W/kg, ranging from 0 to 500. The x-axis represents the percentage state of charge, ranging from 100% down to 0%. The legend identifies the series: B1 (diamonds), B (squares), B24 (circles), and B23 (triangles). A shaded box in the upper right corner specifies the test conditions: $P = 2/3 V_{OC} \cdot I_{MAX}^{1/3}$, 10 Second Pulse, and $-30^{\circ}C$.

% STATE OF CHARGE	B1 (W/kg)	B (W/kg)	B24 (W/kg)	B23 (W/kg)
100	200	200	200	240
80	180	5	140	140
50	25	0	115	115
20	0	0	0	0

1/27/2004

Fig. 14



Metallic Nickel Measurement after Activation

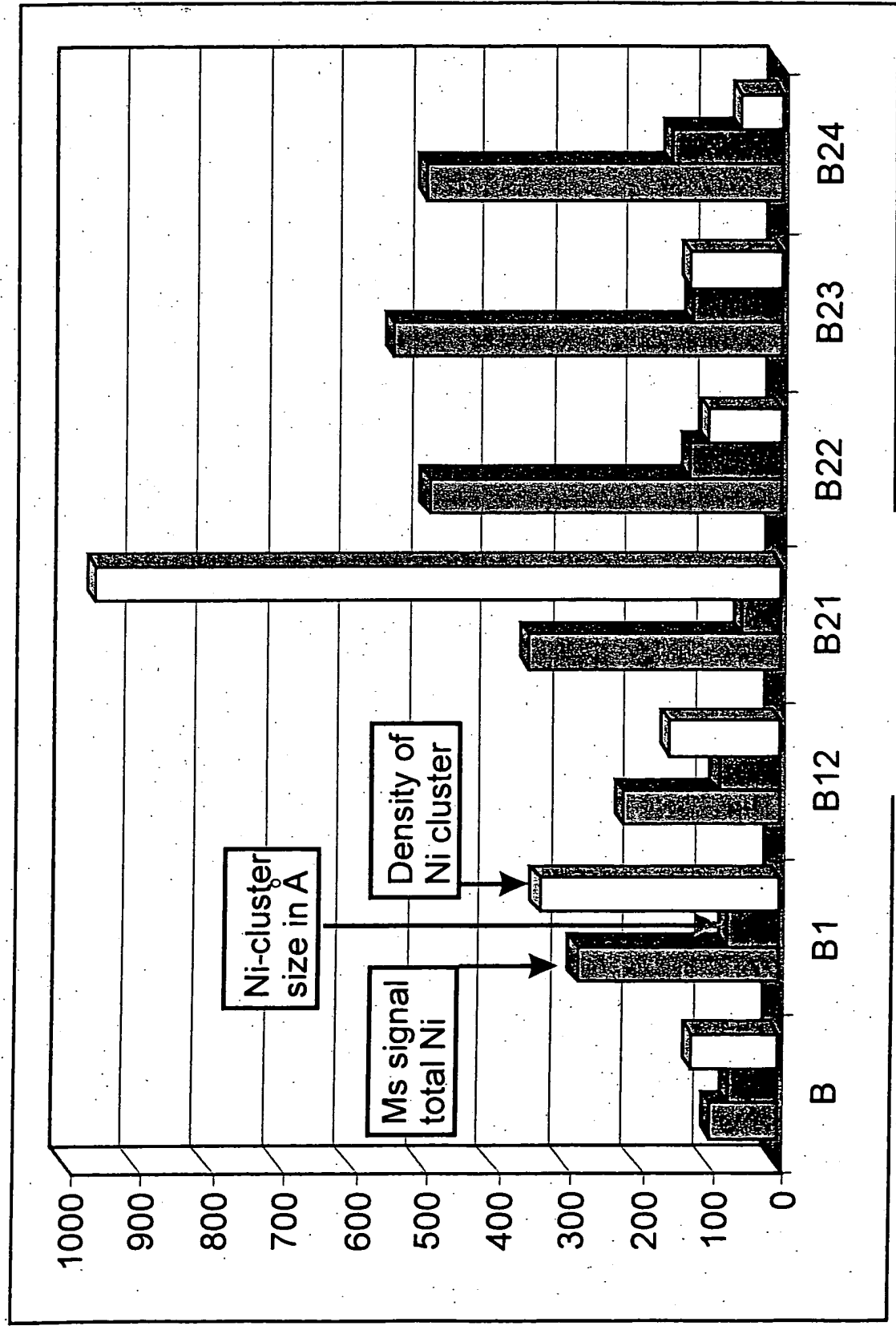


Fig. 15

Over Potential Vs. Current At 80% SOC For B1, B21,B22,B23, & B24 Roll Compacted Electrodes at -30C Using A 10sec. Pulse - Showing Experimental And Butler-Volmer Fitted With Pore Resistance

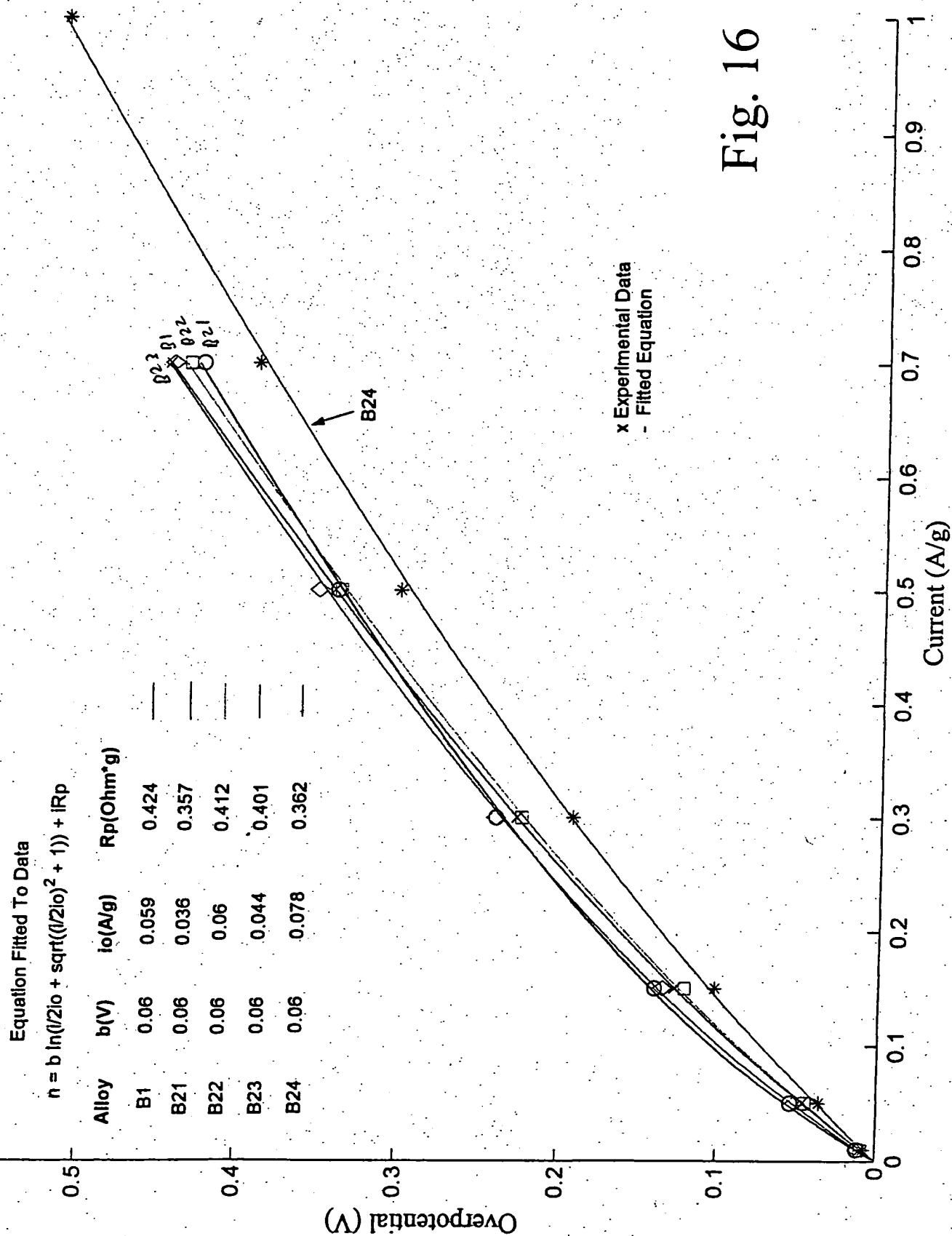


Fig. 16